Moisture Analyzer HX204/HS153

Software Release Notes

Contents

METTLER TOLEDO

1. HX204 and HS153 Software Version History

Date	Topic	Description	Terminal	Drying Unit	TDNR[1] update needed
June 25, 2021	Bug Fix	See Information on Annex 3.31	3.31	1.60	No
Jan 25, 2021	SW update & Bug fix	See information on Annex 3.30	3.30	1.60	No
May 25, 2020	SW update & Bug fix	See information on Annex 3.20 See information on Annex 2.50	3.20 2.50	1.60	No
Jan 10, 2020	SW update & bug fix	See information on Annex 3.10 See information on Annex 2.40	3.10 2.40	1.60	No
Sept 19, 2019	New Hardware	See information on Annex 3.00	3.00	1.50	No
June 17, 2019	Bug fix	See information on Annex 2.32	2.32	1.50	No
May 15, 2019	SW update & bug fix	See information on Annex 2.31	2.31	1.50	No
Sept 20, 2017	Bug fix	See information on Annex 2.22	2.22	1.40	No
Jan 26, 2017	Bug fix	See information on Annex 2.21	2.21	1.40	No
Jan 23, 2017	SW update & bug fix	See information on Annex 2.20	2.20	1.40	No
Oct 15, 2015	Bug fix	See information on Annex 2.13	2.13	1.31	No
Dec 19, 2014	Bug fix	See information on Annex 2.12	2.12	1.30	No
Sept 30, 2014	Bug fix	See information on Annex 2.11	2.11	1.30	No
July 1, 2014	SW update & bug fix	See information on Annex 2.10	2.10	1.20	No
Nov 22, 2013	Bug fix	Relevant for production only	2.02	1.10	No
Nov 07, 2013	Bug fix	Fixes for SmartCal test display	2.01	1.10	No
Nov 01, 2013	SW update & bug fix	A4/Letter printouts, network connectivity, PDF reports, automatic SmartCal normalization, RHT sensor, SOC delay, AutoMet, FreeFactor. Bug Fixes.	2.00	1.10	No
Dec 19, 2012	SW update & bug fix	MT-SICS commands, acoustic feedback, new export functions. Improved test measurement, step drying and SW upgrade process. Bug fixes.	1.20	1.10	No
July 26, 2012	Bug fix	Fixes in Russian and Japanese translations	1.10	1.00	No
Apr 18, 2012	Initial Version HX204		1.00	1.00	No

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[1] For TDNR (Type Definition Number) update, please contact your METTLER TOLEDO representative.

2. Software Product Lifecycle Policy

The Software versions 1.x and 2.x are supported until 20th of December 2022. This means that patches for critical bugs are guaranteed until this date, new features will not be implemented after software version 2.50.

The terminals of the instruments with serial number B940371811 and lower contain a processor which only supports software version 1.x and 2.x (terminal software identification 30008642).
When using a terminal with the terminal software identification 30535417, the new software version 3.xx or higher is automatically delivered, which will continue to be extended with new features.

3. Software version 3.0 and higher

A new terminal hardware including a different processor is existing in instruments starting with serial number B940371812. This new hardware is not compatible with software versions 2.xx and 1.xx and requires software version 3.0 and higher (terminal software identification 30535417).

<u>ANNEX 3.31</u>

Description
Terminal Software V3.31, Drying Unit Software V1.60

Software Changes
Fixed in Software version 3.31
- QuickPredict license mechanism fixed for HS153   - SD Card detection improved   - Slow terminal clock fixed (loss of 1s each 10min in manual mode)   - Synchronization of daylight saving time switch fixed

SW Release Notes

Description
Terminal Software V3.30, Drying Unit Software V1.60

Software Changes

New in Software version 3.30
- **Date/time:**
  o Date/time synchronization from time server (NTP)
  o Support for daylight saving time
- **Export**
  o Support for shared directories on network (SMB)
  o Support for subdirectories on FTP server
  o Create new folder in directory browser
  o Added export button on result screen
  o Save last settings in export dialogs
  o Changed file name prefix for exported summary results to SR (previously MR)
- **Print**
  o Support for Ethernet strip printers
  o Support for USB strip printers
  o Added print button on result screen
- **EasyDirect Moisture**
  o Support for Ethernet/Wi-Fi
  o Added EasyDirect Moisture status icon (connection status)
  o Support for all 10 IDs
  o Optimized data transfer duration for long measurements
- **Regulation:**
  o Save aborted result if door is opened during measurement
- **Instrument Tutorial**
  o Run SmartCal test from within Instrument Tutorial
- **QuickPredict**
  o MT-SICS support: Stop predictions and read status and results

Fixed in Software version 3.30
- Removed low battery icon
- Improved result handling (performance, stability)
- Show info if no QuickPredict data file is available when importing drying methods
- Recovery mechanism for missing DB items added (avoid startup issue)
- Improved HA27 behavior (fixed return values and crash)
- Show 'waiting…' instead of 'taring…' in graphics panel

Additional hints:
- LabX Direct Software not supported anymore
- Latest HX204 / HS153 / HC103 embedded Software requires EasyDirect Moisture Software update to V1.10 or higher
- Dongle LM006 for WiFi connection not supported anymore, LM007 required

Known Issues

HX204 / HS153 V1.x-V2.x Update with Asian language selected might destroy OS image on CPU module

Workaround: select English language before starting the update

Description

Terminal Software V3.20, Drying Unit Software V1.60

Software Changes
Fixed in Software version 3.20 • Fixed MT-SICS communication support for strip printers (blinking status light) • Repeatability test status support in HA07 and icon on screen • Fixed falsely created shortcuts after update • Performance optimizations • Fixed memory leaks in GUI

Description

Terminal Software V3.10, Drying Unit Software V1.60

Software Changes
New in Software version 3.10 • Support of configurable Default Gateway • Automatic saving and documentation of results when measurement is aborted **Fixed in Software version 3.10** • Improved import/export functionality • Fixed memory leak in exporting/reporting • Improved QuickPredict and Method Wizard workflow • Fixed switch to high resolution in manual mode • Improved chart scaling in result view and reports • Optimized shortcut handling and method activation

Known Issues
Migration of large data takes long time Workaround: Set result limit to max. 1000 before backup or SW update **MT-SICS support for strip printers is not working properly and causes blinking of the status light** Workaround: Set Auto Bauderate Off, printing still possible

SW Release Notes

Description
Terminal Software V3.00, Drying Unit Software V1.50

Software Changes
V3.00 supports new processor board and USB WiFi Adaptor (Order number: 30541518), no changes in functionality compared to V2.32

Compatibility chart

	New processor board
Software	V3.00 or higher, non-compatible with V2.xx
USB WiFi Adaptor	LM007, non-compatible with V2.xx

Known Issues
Migration of large data takes long time
Workaround: Set result limit to max. 1000 before backup or SW update

4. Software version 2.x and 1.x

Instruments with serial number B940371811 and lower contain a processor which only supports software version 1.x and 2.x (terminal software identification 30008642) but not 3.x and higher. In case of defect, the terminal needs to be replaced which runs on software version 3.x and higher.

<u>ANNEX 2.50</u>

Description
Terminal Software V2.50, Drying Unit Software V1.60

Software Changes
Fixed in Software version 2.50
• Fixed MT-SICS support for strip printers (blinking status light) • Repeatability test status support in HA07 and icon on screen • Fixed falsely created shortcuts after update • Performance optimizations • Fixed memory leaks in GUI

<u>ANNEX 2.40</u>

Description
Terminal Software V2.40, Drying Unit Software V1.60

Software Changes
New in Software version 2.40
• Support of configurable Default Gateway • Automatic saving and documentation of results when measurement is aborted
Fixed in Software version 2.40
• Fixed license key generation for HX devices • Improved import/export functionality • Fixed memory leak in exporting/reporting • Improved QuickPredict and Method Wizard workflow • Fixed switch to high resolution in manual mode • Improved chart scaling in result view and reports • Optimized shortcut handling and method activation

Known Issues
MT-SICS support for strip printers is not working properly and causes blinking of the status light
Workaround: Set Auto Bauderate Off, printing still possible

<u>ANNEX 2.32</u>

Description
Terminal Software V2.32, Drying Unit Software V1.50

Software Changes
Fixed defects in Software version 2.32
• Method Wizard: fixed variable text in Chinese language

Description
Terminal Software V2.31, Drying Unit Software V1.50

Software Changes

New in Software version 2.31
 • QuickPredict: reduce measurement time with results prediction
 • Method Wizard: develop a robust moisture method with minimum effort
 • Data integrity: complementing features facilitating compliance and adherence to ALCOA+ principles
     o   Zero results: no storage of results on instrument (only HX204)
     o   Auto-lock: configure auto-lock times for users
 • User guidance: accessories definable in method parameters enable improved workflow guidance
 • EasyDirect Moisture support: connect up to 5 instruments to a SQL database for secure data transfer via RS232/USB
 • Integration to management systems: additional and enhanced MT-SICS commands for comprehensive end-to-end integration and automation
 • EULA (End User License Agreement)
 • Licensing: customizable software packages to cover individual customer needs
 	
 Fixed defects in Software version 2.31
 • Disabled display light in standby mode to increase lifetime and save power
 • Support for long IDs on PDF reports
 • Optimization of stability criteria for more robust start weight recording also in harsh environments
 • Various other optimizations (improving system performance and stability)
 • User can no longer disable his own password in user settings
 • Fixed exporting of more than 150 results in PDF summary report

Description
Terminal Software V2.22, Drying Unit Software V1.40

Software Changes
New in Software version 2.22   More details in event log   **Fixed defects in Software version 2.22**   Startup problems due to corrupted database (e.g. after SW update, factory reset)

Known Issues
Exporting more than 150 results in PDF summary report might lead to error   - If a high number of results are being exported to one PDF summary report there is a possibility that a memory error message pops up. The device needs to be rebooted in order to operate again leading to loss of the report.   Workaround: Split results by using result filters in order to export max. 150 results to one PDF summary report.

ANNEX 2.21

Description

Terminal Software V2.21, Drying Unit Software V1.40

Software Changes
Fixed defects in Software version 2.21
In terminal Software V2.20 the door button was deactivated during the SetupWizard (only HX204)

Known Issues
Exporting more than 150 results in PDF summary report might lead to error
- If a high number of results are being exported to one PDF summary report there is a possibility that a memory error message pops up. The device needs to be rebooted in order to operate again leading to loss of the report.
Workaround: Split results by using result filters in order to export max. 150 results to one PDF summary report.

ANNEX 2.20

Description

Terminal Software V2.20, Drying Unit Software V1.40

Software Changes
New in Software version 2.20

- Connectivity
  - o WiFi Support: connect to a network through WiFi
  - o MT-SICS over network: Send MT-SICS commands through WiFi or Ethernet
  - o Gutenberg strip printer support: connect RS-P5x printers
  - o USB Barcode reader support
- **Compliance**
  - o Method versioning: changes in methods are now visible in the results: results obtained with previous versions are greyed out
  - o Method selection: methods can be activated/deactivated for each user
  - o Configurable strip printout: user can customize what information is shown on the strip printout
  - o "More data" section: method parameters are also shown
  - o Repeatability test: guided test functionality with possibility to print the result on strip only (only HX204)
- **SmartCal enhancements**
  - o Test temperature can be chosen in the testing menu
  - o Testing temperatures can be deactivated for users
- **Varia**
  - o Setup wizard
  - o Instrument tutorial
  - o Enhanced shortcut management: Dedicated menu for managing shortcuts
  - o Screen saver
  - o Enhanced date/time information on exports and printouts
  - o Enhanced speed for data transfer with LabX direct

Fixed defects in Software version 2.20

- SmartCal:
  - o Erroneous control limit message when customer temperature is used in SmartCal test
- Weight test/adjustment:
  - o FACT history is now correctly listed under weight adjustment history (only HX204)
  - o Cancel button while taring in weight test/adjustment (internal/external) is now working properly
- Print / export:
  - o PDF reports: results in the table cannot deviate from the graph
  - o Support for auto export and auto print enabled at the same time (fix of known issues V2.13 and V2.12)
  - o Print button is now disabled if no results are available
  - o Prefix for export of results can now be removed
- Varia:
  - o Improved handling of long IDs and names (containing special characters)
  - o Creation of duplicate IDs is no longer possible in ID management
  - o Popup messages now contain unambiguous messages
  - o Instrument stops working if terminal crashes, this was not always the case in previous versions

Known Issues
Exporting more than 150 results in PDF summary report might lead to error
- If a high number of results are being exported to one PDF summary report there is a possibility that a memory error message pops up. The device needs to be rebooted in order to operate again leading to loss of the report.
Workaround: Split results by using result filters in order to export max. 150 results to one PDF summary report.

ANNEX 2.13

Description
Terminal Software V2.13, Drying Unit Software V1.31

Software Changes
New in Software version 2.13
• Test Weight Range (Change is applicable for legal for trade instruments only)
o Tare functionality adapted in weight test mode according requirements for legal for trade instruments.
Fixed defects in Software version 2.13
• Improvement internal calibration (only HX204)
o In previous versions it was possible that a user executed an internal calibration that was not performed but prematurely aborted (error message "Unstable weight. The test has been aborted."). This issue is fixed.

Known Issues
Crash when both auto print and auto export are enabled
- The unit can crash when both A4 auto printing and auto export as pdf are enabled simultaneously
Workaround: Only one of those options can be enabled or export to CSV when auto printing to A4 is active

ANNEX 2.12

Description
Terminal Software V2.12, Drying Unit Software V1.30

Software Changes
SW Stability improvements
- Software 2.12 brings significant improvements with 'sensor connection lost' and stability issues.

Known Issues
Crash when both auto print and auto export are enabled
- The unit can crash when both A4 auto printing and auto export as pdf are enabled simultaneously
Workaround: Only one of those options can be enabled or export to CSV when auto printing to A4 is active

Description
Terminal Software V2.11, Drying Unit Software V1.30

Software Changes

New in Software version 2.11
- Identification Management
  - Entering and automatic deletion of identifications is now possible without administrator access rights
- Language Support
  - Exported CSVs are now optimized for opening in Excel (Languages other than English). CSV files can now be opened in Excel by double clicking and the characters are displayed correctly
  - A4 pdf reports in Chinese are now smaller (file size) and are exported faster
- **Motor drive for door without clutch (only HX204)**
  - Fixed emergency opening of automatic door

Fixed defects in Software version 2.11
- Sensor Connection Lost Error
  - In previous software versions it was possible that the sensor would disconnect from the terminal, this issue has been significantly improved in SW version 2.11
- Networking
  - All network related settings are now correctly reset after a factory reset of the device
- Reboot after disconnected printer
  - The issue where occasionally attempting to print an A4 pdf report of a weight test or adjustment the unit will reboot if the printer becomes suddenly disconnected from the device has been solved

Description
Terminal Software V2.10, Drying Unit Software V1.20

Software Changes

New in Software version 2.10
- Auto Delete
  - A new feature that will automatically delete the oldest measurement data on the device once a certain limit (stored records) is reached.
  - This feature will be automatically activated upon updating to SW revision to 2.10 (or later) from a version older than 2.10.
- Temperature Test Range
  - The test temperature can now be selected in the range of 50°C and 200°C (only HX204)

Fixed defects in Software version 2.10
- Sensor Lost Error
  - In previous software versions it was possible that the sensor would disconnect from the terminal, this issue has been improved in SW version 2.10
- Temperature test 0.1°C
  - For temperature tests and adjustments temperature values are presented in 0.1°C increments
- Color printer support & fixes
  - OKI C531dn A4 color printer supported
  - Letter format now supported
  - Optimized report printing (colors of graphs previously printed too weak etc.)
- Test Weight Range
  - The range of supported weights for the external weight test is now between 0.1 g and 201 g for HX204 respectively between 0.1 g and 151 g for HS153
  - Overload tolerance when testing at capacity limit is opened, so that an overload error is avoided when testing with weights slightly larger than capacity
- SmartCal lot number saved
  - The SmartCal test lot number is now shown in results in all printouts and exports
- RHT Sensor ID saved
  - he RHT-Sensor ID is now shown in results in all printouts and exports
- Progress Indication
  - A progress indication in percent is now shown in all instances where a busy indicator is shown (e.g. software update, data export and delete operations)

- Miscellaneous features and performance optimizations
  - Various performance, stability, and usability enhancements

5. Support and Contact Information

If you need further support or advice, please contact us: www.mt.com/contact